

THE · TECH



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JAN. 11,
1900.

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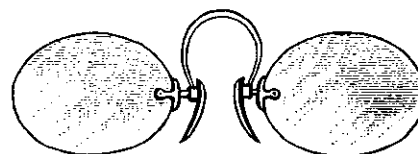
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THE TECH

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For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

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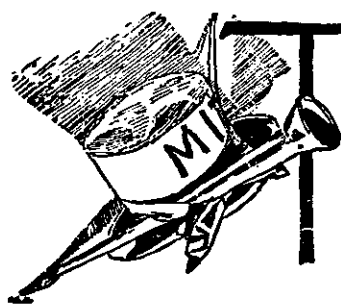


THE term just about to end, has passed for the most of us very quickly and it is difficult to realize and appreciate the amount of work that has been accomplished on all sides in the past four months. Of the two terms of the year at Technology, the first is the less interesting and yet interest and progress have been far from lacking.

In making a brief retrospect of the term,

considerable progress cannot fail to be noticed in athletics, society, undergraduate, and alumni work, and especially the latter. As for THE TECH, its circulation has extended, thus showing that the Technology weekly is gaining in support and appreciation. In looking forward to the next term there is a great deal that will bring more interest, more zest to our work at the Institute. We are already anticipating Junior week, *Technique*, the Worcester games and the undergraduate theatricals, and moreover, the outlook speaks favorably for all.

The vacation that is so close at hand will come after the examinations with the fullest refreshment and relief. The work in Technology is arduous, every minute counts, and at the close of the term the work tightens its grasp. So for the present, until next term, the editors of THE TECH gladly drop their editorial affairs, wishing all the best success at the examinations.

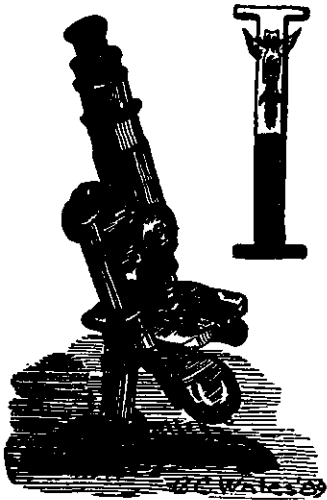


THE resignation of President Crafts has called forth from all those interested in Technology, expressions of sincere regret. In the three years of his presidency the Institute has continued to enjoy the prosperity that marked General Walker's administration, and is to-day stronger than it ever was before.

While we feel that in one way the Institute has suffered a distinct loss, still President Crafts' determination to devote himself to scientific work is significant. It marks, we hope, the beginning here of that university spirit of which President Crafts has been

the first exponent. The inspiration that comes from working under a man who has distinguished himself in any line of work, as has President Crafts in his, is something of which the value is inestimable if we are to count in the future among our alumni men of note in the purely scientific world.

President Crafts has filled a difficult position well and the thought and study that he has given to the interests of our college is not unappreciated.



IN view of President Crafts' resignation, to take effect at the close of the present school year, his annual report is this year of especial interest as indicative of the flourishing condition in which he will leave the Institute.

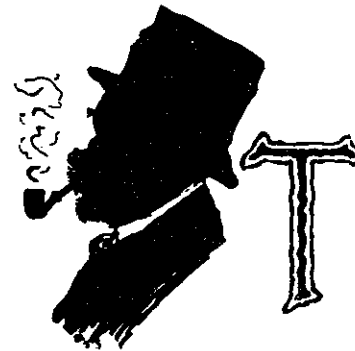
The distinction between the professional school and the college, as emphasized by President Crafts, is one which is coming to be recognized more and more. The development of the Institute independently, and the success which has accompanied this freedom from interference of any kind, is cited as a striking proof of the assertion that technical schools can best handle the problems which confront them without dictation from a university of which they may be an off-shoot.

In spite of the fact that Technology is primarily a scientific school, the prescribed course of instruction as laid down by the faculty is shown to be as broad as that pursued by the average student in colleges where electives are in vogue; and to our mind a scientific course of instruction, with the general subjects prescribed to all students, is much more fitted to develop the students' intellect, and the faculty of attacking any given problem, whether of a technical nature or not, in a systematic manner, than is a course of purely

elective subjects, in which in the majority of cases, the student selects those subjects which he can pass with the least difficulty.

The constant broadening of the courses of instruction is shown in the new option in Landscape Architecture, soon to be added to the Architectural Course, in the option in Heating and Ventilation already introduced into the Course II. curriculum, and in Professor Summer's option in the Politics of Eastern Asia.

The statement of the treasurer is encouraging, showing a large increase in property of the Institute during the past year. Although a large proportion of the year's bequests are not available for general purposes, the special bequests fill in many cases long felt wants, in providing advantages which the financial resources of the Institute have heretofore been unable to supply.



THE system of marking and exhibiting drawings which is made possible by the nature of the work in the Architectural department has many points of advantage over those in vogue in the other courses. The knowledge that his work will be given a high or low place in the exhibition, according as it is well thought out and carefully worked up, or slighted in scheme and execution, cannot but draw out the best talent a man has. This fact is well shown by the way the work is carried on. Throughout the whole task of working out a problem, every man is thinking of those mentions to be awarded and trying to better his work by looking at it from the standpoint of others. And, finally, if a man does get his hoped-for mention, he feels that his work has not been in vain, and is encouraged for his next task, unlike the man who works on day after day, never seeing the rewards of merit, and never getting out of his well-worn rut.

Abstract of President's Annual Report.

President Crafts opens his report with a reference to recent notable events in the college world. The inauguration of presidents at Amherst, Wellesley, Brown and Yale, the announcement of educational programmes at those occasions, and in particular a comparison made by President Hadley between professional schools and colleges, have lead to a statement in the President's report of the part which is taken by the Institute in the educational efforts of the day.

The President of Yale describes the students of Military Academies as a homogeneous body of men pursuing a common scheme of studies with a common end in view, and with rigorous requirements as to work, and says that in colleges the community of interest is less and the community of hard work is very much less, and he fears that the true spirit of college democracy may pass away under the new form of college life.

It is pointed out in the report that an independent school of applied science also attracts a homogeneous body of students because selection is brought about by the known fact that this course of study is arduous and demands a mind trained to mathematical discipline, thus operating a selection before entrance, while a prescribed curriculum and a mature understanding of the application of the studies to professional work lead the students to strive constantly towards a common goal.

Esprit de corps in college is succeeded in after-life by the professional spirit with its declared standard of honor and distinctness of purpose, so that in the civil as well as in the military professions men are bound together and form a disciplined element in the community. The subsequent careers of our graduates proves the maintenance of professional spirit, since more than 90% remain in some sort of scientific occupation. They form part of an army of more than 300,000 engineers, chemists, miners, physicians and architects, who are transforming American industries and replacing wasteful guess-work methods by calculations and by trained taste.

The difference between the educational work of scientific schools and colleges is described as follows: "Any institution whose fixed course of studies maintains a high educational standard and strengthens a distinct purpose till it is settled for life is doing its

true work as a professional school. The college of to-day seems to be accepting another task as its most important function—that of directing and giving play to scholarly and social tastes, * * *

Attention is called to the tendency which is growing in all professional schools, to make their work succeed that of college, and it is stated that in Germany, now that the polytechnic school of Charlottenburg has acquired the right to give the degree of Ph. D., projects are on foot for establishing a technical degree superior to that of the University.

The fitting place for technical schools, whether independent or incorporated with a university, is discussed, and it is noticed that in Europe they are almost always independent, while with us they have grown up under the shelter of an old university or as part of a new one. The advantages of independence in handling problems so different from those of the University is pointed out, and we think that it has been illustrated by the history of the Institute, which has had a free development within a great educational centre.

A description is given of the government of American collegiate institutions by private individuals incorporated as trustees by the States and granted the right of conferring degrees. In Europe such functions belong to a trained, permanent board of experts, attached to the ministry of public instruction, with the financial resources of the state at their back. In our Eastern, Middle and Southern States, men in private life have taken these duties upon themselves gratuitously and, in consultation with faculties, have instituted new courses of higher instruction and have appealed to the community for financial support. The methods of teaching applied science thus organized have in some branches been more nearly in touch with the demands of the time than in any other country. The report says: "Such governing bodies, unlike ministers of education abroad, have frequently been obliged not only to decide upon new courses of study, but also to pay for them from their own pockets, and in the Institute each demand has met with a generous response not only from those of our own government and from our alumni, but also in a very remarkable way from men quite unconnected with us, who have put their wealth in our hands for distribution without reserve or restriction. It is easy to understand that

the expenditure of funds under these conditions should be made with the shrewdness of the best business methods — and economy of production is one of the most notable features of American institutions of higher education, and is sometimes in strong contrast with those of Europe. Former reports have alluded to the attention which American methods of education in science have attracted in Europe, and again this year we have received visits and requests for information from persons charged with the establishment of schools of applied science in England, in Germany and in Russia."

An account is given of the course of study leading to the degree of Bachelor of Science and it is held to be at least as broad a programme and more faithfully followed than that leading to the degree in Arts under the elective system.

The classical tradition that a council of teachers can provide the best course of studies for a professional career has been adhered to in our scientific schools; and it is said that colleges have now assumed a different task, that of providing with large freedom of choice for scholarly and social tastes. Some of the results of the new collegiate methods are questioned, and it is said that "the choice now made by students under the elective system shows a singular neglect of mathematics and in particular of physical studies, which underlie the greatest achievements of this scientific age."

It is explained that athletics and particularly competitive athletics are hindered in a professional school, not so much because of the severity of the studies as of the time consumed in laboratory and designing room. Also the social side has aspects in our Boston school different from those of a college town. Here nearly half of our students live in their own homes and introduce their comrades to them.

The considerable accessions to our funds during the last three years have been used to introduce necessary improvements in our courses of instruction while the claims of students unable to pay our high tuition fee have been met by an increase of about 50% in the scholarship appropriations, so that they are now \$24,000. It has not been thought expedient to reduce the tuition fee but rather to make the education more valuable. Undoubtedly the small increase in the number of students, only seven more than last year, is affected by the growth of flourishing

schools of science with very low tuition fees, — in some institutions \$15 to \$30.

The office of Librarian was established ten years ago and Dr. Bigelow reports the progress made since that time. The library has grown from 17,545 volumes in 1889 to 50,149 volumes. An excellent room for the general library has been provided and is much used between hours of lectures. We were among the first to divide our books among the departments for more convenient use and some of our departmental libraries stand among the first in the world. According to the lists in Minerva, we come fifth in numbers of books among the European technical libraries, but the list does not appear to be complete. The value of our libraries is estimated at \$112,866. This year 3,438 volumes have been added.

A new option in Landscape Architecture has been planned to diverge from the architectural course in the second year. A principal feature is a course of studies in Horticulture extending through three years. The position of the Institute offers unrivalled opportunities for those studies, for we are within easy reach of the Arnold Arboretum, which, under the direction of Mr. Charles S. Sargent, has become known throughout the world for its tree and plant culture. The lectures on Landscape Architecture will be given by Mr. Guy Lowell, 1894, who has recently received the diploma of the *Ecole des Beaux Arts* and who has made a special study of the subject in Europe.

An option in Heating and Ventilation has been added to the Mechanical Engineering department in consequence of a recognized demand for this special work. It will be under the charge of Professor Woodbridge, whose thorough theoretical knowledge and large practice have given him the best preparation for this work.

Few changes are reported from the different departments. The Mathematical Library has been named the Runkle Library and it is now enriched with the gift of President Runkle's private library of 450 volumes upon mathematics and astronomy besides pamphlets.

The annual statement of Mr. George Wigglesworth, treasurer of the Institute, incorporated in the president's report, is, in substance, as follows:

Under the will of the late Edward Austin, the Institute received, after payment of the United States

succession tax of \$60,000, \$340,000, the income from which is to be used for special purposes designated in the will. Mr. Edward W. Hooper most generously gave to the Institute the full sum paid by it for legal expenses incurred in connection with the settlement of this will, amounting to \$1,800. Mr. Augustus Lowell has given \$50,000 to constitute a teacher's benefit fund. In addition to the large amounts previously paid over by the executors of the will of the late Hon. Henry L. Pierce, \$30,000 more has been received.

Similarly the trustees of the J. W. and Belinda Randall charity have added \$25,000 to their previous gift, and the executors of the late Mrs. Julia B. H. James have made a further payment of \$6,000. From the Susan E. Dorr estate \$1,467.19 has been received, and the Ann White Dickinson scholarship fund has been increased by \$594.41. Mrs. William B. Rogers has given \$200 for the purchase of periodicals, and from other friends have come gifts amounting in all to \$861.34.

The net increase in the property of the Institute for the year is \$437,115.26. It should, however, be noted that of this sum nearly \$393,000 is for special purposes, and not available for general purposes.

President Crafts on Removal.

The "plans" that have appeared in many newspapers during the past week in regard to the prospective purchase of land or in regard to the removal of Technology have called forth emphatic denials from the officials of the Institute. The strongest reasons given as to why neither change of site nor purchase of additional land are likely to occur are that the Institute has no money to buy another site, that all the available funds are needed for current expenses, and that money that is now being used in educational matters could not well be devoted to enlargement of our present quarters.

President Crafts, when interviewed by a representative of THE TECH in regard to the rumors that have been circulated, said: "So long as no one represents us as being at the bottom of many of the articles that have appeared in print, we are glad to have published

anything which shows interest in our destiny, and we hope that, among the many suggestions made, some may prove valuable to us.

"The last report of the treasurer shows a deficit in the income of the school, and for this reason any project for change, if entertained at all, would have to be given most careful consideration. Furthermore, the purchase of land under present conditions would absorb funds that we are now using for educational purposes, and we should not think of changing the uses to which they are at present applied.

"None of the 'plans' that have been published about purchase of land or our removal to a suburban site have ever been officially considered."

B. A. A. Indoor Meet.

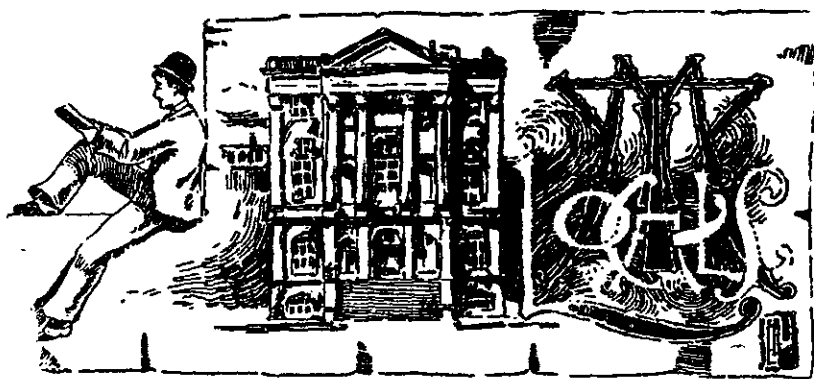
On the evening of February 3, the annual indoor handicap games of the B. A. A. will be held in Mechanics Hall.

The scratch events will be the two-mile run (championship); 440-yard and 40-yard runs, novice; the latter two being only for men who have never won a prize.

The handicap events are: 40-yard dash (9-ft. limit), 660-yard run (30-yards' limit), 45-yard low hurdle race (4 flights, 2 ft. 6 in. high, 9-ft. limit), 1000-yard run (50-yards' limit), 1-mile run (60-yards' limit), putting 16-pound shot (6-ft. limit), high jump (6-in. limit), 3 standing jumps (1-ft limit). Entry blanks are now posted in the gym.

The large list of handicap events will give our athletes a good chance to compete for prizes. Especially is this so for many of the new men who have shown up this year, for the more of a novice a man is, the better will be his chances of securing a large lead from the handicapper.

This meet is the best of its kind to be held during the winter, and a large list of entries from Tech. should be productive of good results.



Jay N. Pike '01, IV, has left the Institute and entered Pape's Art School.

In addition to the relay team there is talk of reviving the bowling club organized last year.

Professor Burton is to take charge of an expedition to Georgia to observe the eclipse of May 28th.

The following men have been elected to the Architectural Society: Whiten, '01; Miller, '01; Parker, '01, and Blaisdell, '02.

H. N. Hudson, manager of the Musical Clubs, has partially arranged for a trip to Maine during the February vacation.

A large photograph of General Walker, framed in dark oak, was last week placed in the Economic Library by the Walker Club. Thanks are due to Professor Ripley for obtaining the print.

Andrew Carnegie has given \$300,000 to Cooper Union to establish a day school, at which young men may become skilled workmen. It will be similar to the present night school, and will be known as the "Mechanics' Arts Day School."

Solo voices are wanted for the leading parts in "The Medicine Man." All students wishing to take part should apply to A. W. Rowe '01. All men who try will have an equal chance of success, as all parts will be assigned by a professional coach, strictly on the individual merits of each man.

Last week Professor Despradelle purchased a valuable tract of land, of over 2,000 square

feet, on the corner of Bay State Road and Raleigh street. The location of the land is one of the best in this part of the Back Bay, and it is the intention of Professor Despradelle to build a splendid house for occupancy.

The 534th meeting of the Society of Arts will be held at the Institute on Thursday, January 11, 1900, at 8 p. m. Prof. Elihu Thomson, of Lynn, will address the Society on "A Dynamo Static Machine." One of the machines will probably be shown in operation. Members are requested to invite friends interested in the subject.

At a meeting of the Trophy Room Committee on January 1st it was decided to duplicate as far as possible those photographs of athletic teams now in the gymnasium. The Athletic Association has its desk in the Trophy Room and the Trophy Room as such will be definitely opened to the public immediately after the mid-year vacation.

Architectural Mentions.

The mentions have been made on the work of the fourth-year Architects, who have spent most of their time on a design for a Small Museum. The drawings, which are now on exhibition in the Architectural department, were judged by a committee of Boston architects as follows: First mention; first series, Ford, Miss Liliencrantz, Little, Oliver, Pigeon, Walker; second series, Buys, Lawrence, C. V. Merrick, F. I. Merrick; second mention, Kattelle.

The third-year designs for An Entrance to a Court House were mentioned at the same time, as follows: First, Appleton, Henrick, Sayward, Emerson; second, Colby, Blanchard, Lawrence; third, Aldrich.

Calendar.

Tuesday, January 16.—Semi Annual Examinations begin.

Tuesday, February 6.—Second term begins.

Thursday, January 11.—Meeting of the Society of Arts at 8 p. m.



Varsity Football T's have been distributed to the new men on this year's Varsity. They are of block type and of larger size than those previously used.

Many of the solicitors for subscriptions for the football team last fall have not turned in their reports. It is desired by the management that such reports be turned in at once.

Contributions for the football team are coming in slowly. The move is worthy of the attention of each and every student, so let every loyal Tech man contribute his mite.

The Hockey Team was scheduled to play a practice game with Harvard last Saturday afternoon, but the poor condition of the ice caused a postponement till Monday afternoon.

The Brown University Hockey Team has been organized and is rapidly working into shape. A rink has been constructed on Lincoln Field for the use of the team, and steady practice is in order.

The Varsity football pictures are finished and will be distributed as soon as those ordering have paid. Prompt payments will greatly facilitate the distribution, as no pictures will be given out till all orders are paid for. Money can be left at the cage for the manager.

The relay team received a challenge from Columbia University for a race at the Boston College Meet on January 27. As it would be manifestly unfair to our men to put them into a race immediately after two weeks of exams., the challenge was declined by the Management.



'85. Mr. Heywood Cochran, II, is temporarily in the office of the Lorain Steel Co., at Johnstown, Pa.

'86. Mr. H. B. Merriam, VI, has been abroad for some months on business for the Sims-Dudley Defence Co., with which he is connected.

'86. Mr. Wm. E. Shepard, VI, has left the General Electric Plant in Schenectady to become an engineer with the French Company, for the exploitation of the Thomson-Houston System, and is now in Paris.


'87. Mr. Charles A. Barton, II, is at present with the Canadian General Electric Co., in Peterboro, Canada.

'88. Mr. Richard Devens, II, has resigned his position as engineer with a railway supply concern in Boston to take a similar position in a London Manufacturing firm, England.

'95. Mr. Luther Conant, Jr., IX, is now Editor "Outside Securities," Journal of Commerce and Commercial Bulletin, Nos. 17 and 19 Beaver St., New York City.

'98. Mr. E. A. Weiner, II., has hung out his shingle as consulting, mechanical and blast furnace engineer, in Lebanon, Pa.

"THE GIRLS ARE FOND OF THESE"

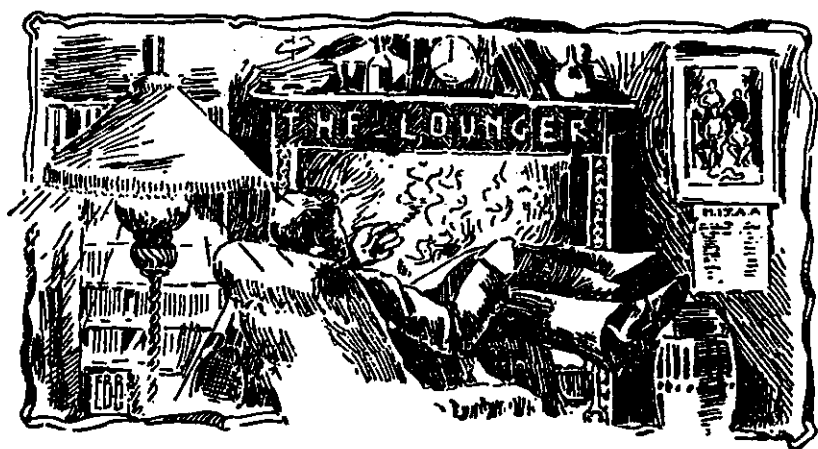


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THE LOUNGER feels relieved. One by one, the cares and anxieties that weight his mind drop away, and he is able to devote all his attention to the various little formalities connected with the coming games. The last incubus that has been removed from his shoulders is the matter of proper physical training for the young women of the Institute, or, as the masses speak, the co-eds' gym. Now no one has been more urgent, more insistent, more generally rabid over this gymnasium than THE LOUNGER. Many a night he has stayed awake, hour after hour, until late became early, writing forceful articles on the matter — which articles the editor-in-chief, with infinite feeling, has softly dropped into the wastebasket with a silent tear. And now, as a result, it has not only come to pass and to the co-eds, but the curtains have come and all the young ladies—and some of those who can't properly be called young—are already showing an altered physical development, that is truly remarkable. THE LOUNGER cheers wildly—with his pen. In his mind's eye, he sees the slender and the willowy, the petite and the stubby, the gentle and the confiding, rapidly evolving into majestic amazons, proud in stature, stately in form, inspiring in everything. It is, indeed, a change, and a change, indeed, for the better. Yet THE LOUNGER does not wish it for a moment understood that he believes the co-eds are improved; such a thing he acknowledges is beyond the limits of possibility. But though the gynmasium has not made them more perfect, it has undoubtedly made them perfect in more ways, and it is of this that THE LOUNGER rejoices. If any of THE LOUNGER's readers fail to see into this, we would suggest that it pertains to the co eds' gym, and *that* of course cannot be seen into.

Among other things, and twenty chairs, in this amazon factory, is a Swedish double boom—abridged. The heavy, thick, tried-wood horizontal gives ample promise of supporting such of the delicate creatures as dare to perch upon it. Were this log of the customary twenty feet in length, and were the performers of something more than seventy-five pounds, on the average, in weight, there might be some danger, but the section found here is only one

quarter as long, and will probably bear up under any co-educational strain, however great, exerted upon it. This is of course very tranquilizing news, to the co-ed, and — more particularly — to the occupants of the room underneath. Now do the co-eds appreciate their new room? Well! Let THE LOUNGER cite the case of one who, when asked if she had tried the hot and cold shower-bath, replied that she had intended to do so every day, but each morning she had *persisted* in forgetting to bring an umbrella!



It is seldom that THE LOUNGER feels called upon to venture any remonstrance to the action of the body of enthusiasts known as the Y. M. C. A. Now, however, a word must be said. If the Y. M. C. A. people feel the necessity of introducing some ulterior attraction to swell the numbers at its meetings, that is, of course, its own lookout; only THE LOUNGER would suggest that spiritous refreshment with free lunch attachment, is hardly an appropriate kind of drawing card for them to employ. In the case of chapel, custom may have made it all right; but for the Y. M. C. A., popular opinion and THE LOUNGER say "no." If the Secretary objected to an exhibit of class pipes for fear the smoking habit should receive too great an impetus in consequence, it is only fair to presume that he would also enter into opposition to such a sign as the following, even though it were placed at the head of the notice of a Y. M. C. A. meeting.

B A R.

Up one flight, to the left.

Room 11.

It was, doubtless, only because this appeared in a building some distance removed from the Secretarial edifice that the announcement was suffered to remain visible as long as it did. Yet even this is not the whole extent of the Y.- M.- C.- A.- tory transgression. Their use of such a sign as the above is indeed bad enough; but how much worse is their act not only of appropriating it from a most respected geological instructor, but also of deliberately removing a "PROF." from one side and a TON from the other to make the notice read as it does above!

If a few prime malefactors of a particularly wretched and desperate character should do this, it would occasion no particular surprise, only regret; but for the Y. M. C. A. to — words fail. Of course, it may be a good way to bring — entice — inveigle — the sinner back into the fold, but after an act like that, what can there be in the fold but sinners, to meet them! It is a good principle of the Y. M. C. A.-er that the bad should reach the same level as the good; but, Oh virtuous brother, is there not a better way to bring this about than by reducing yourself to the level of the heathen?

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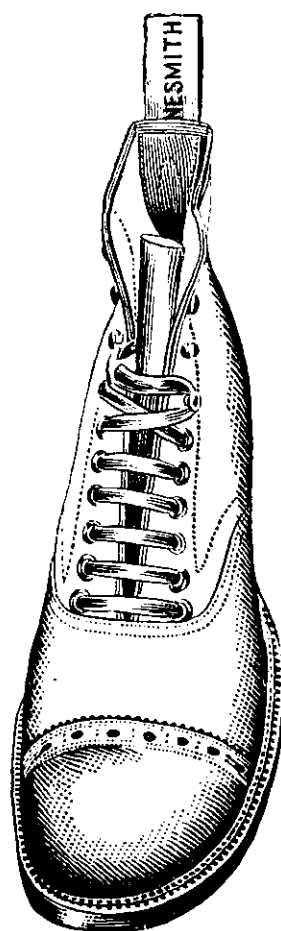
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Hollis Street Theatre.—“Zaza” is one of those plays about which, from the historical point of view, there can be but slight diversity of opinion. Whether the play is moral or immoral is another question, or whether the world is any better for its production; the fact is that it is one of those plays which can fill a theatre for weeks, and the acting of Mrs. Carter and the company is moved by the highest skill.

Tremont Theatre.—The engagement of Mrs. Fiske is evidently going to be too short for Boston theatre-goers. Becky Sharpe is by no means a lovable character—hard, merciless, avaricious, unfaithful, untruthful; but she is bright, witty, courageous and cheerful under her adversities. One seldom sees such a character portrayed in such realistic manner, as is done by Mrs. Fiske.



Boston Museum.—The Rogers Brothers “In Wall Street” have proved a welcome attraction at the Boston Museum. The interest begins with the rising of the curtain; it increases when the Rogers Brothers come in and give their songs and powders, and finally reaches fever-heat when the entire company appears in an Ethiopian Madrigas.



Castle Square Theatre.—The success which attended the novel drama, “With Flying Colors,” at the Adelphi Theatre, in London, has been duplicated at the Castle Square Theatre. The scenes of enthusiasm which attend each performance best testify to its value as a dramatic attraction. The leading characters in the play are admirably portrayed by the members of the Castle Square Theatre stock company, and many notable individual successes have been made in the impersonation of the principal movers in the development of the strikingly effective plot.

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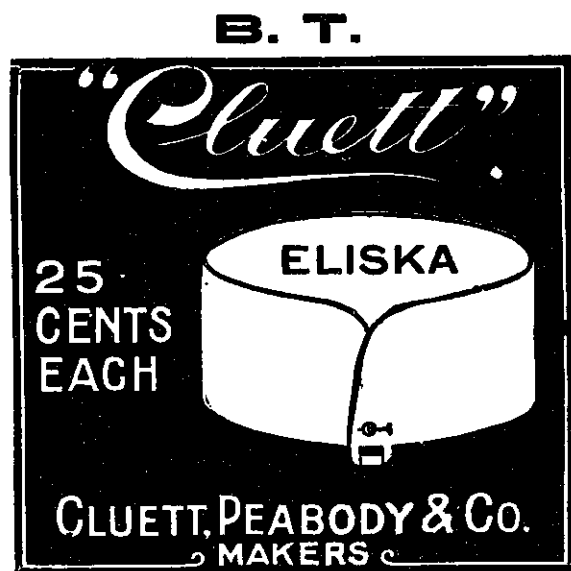
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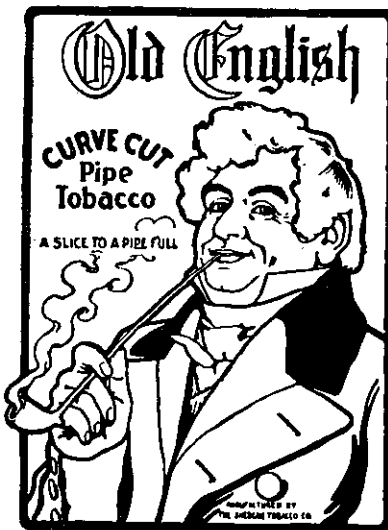
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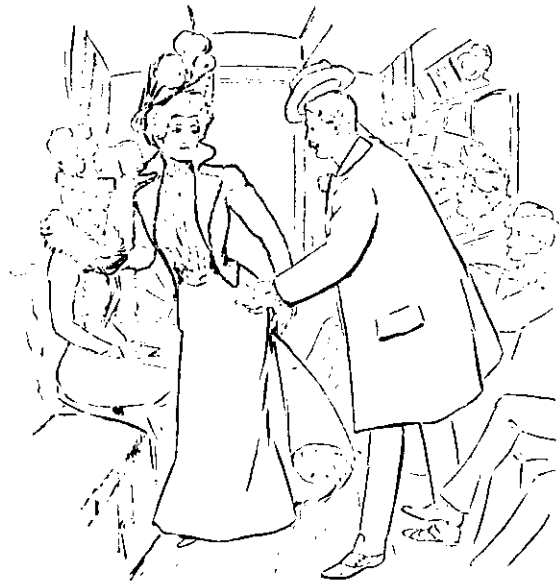


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